

Name: _____



PRACTICE



TUTORIAL

8-3 Additional Practice

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1. In a bowling tournament, Sofia got the following scores: 167, 178, 193, 196, 199, 199, 203, 209, 217, 220, 221.
- What is the median?
 - What is the first quartile?
 - What is the third quartile?
 - Draw a box plot of the data.
 - Write two conclusions about the data shown in the box plot.

2. Sabrina grows flowers. In a competition with other flower growers, she earned the following scores: 7, 10, 10, 6, 7, 8, 8, 7, 9.
- What is the median?
 - What is the first quartile?
 - What is the third quartile?
 - Draw a box plot of the data.
 - Write two conclusions about the data shown in the box plot.

In 3 and 4, use this data set, which shows how many miles Tisha ran each week for 10 weeks.
4, 9, 8, 6, 14, 11, 14, 8, 16, 12

- Find the statistical measures that you need to make a box plot of Tisha's running distances.
- Make a box plot to represent Tisha's running distances.

In 5 and 6, use this data set, which shows the prices, in dollars, of 10 coats.
55, 75, 45, 80, 50, 70, 45, 85, 60, 70

- Find the statistical measures you need to make a box plot of the coat prices.
- Make a box plot to display the coat prices.



In 7 and 8, draw box plots using the data provided.

7. The sizes of different computer files, in megabytes:

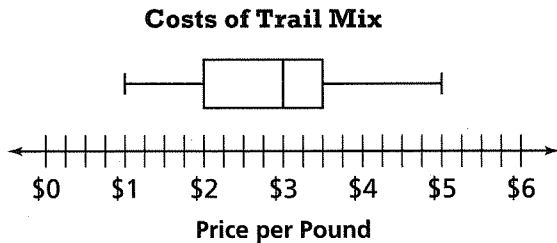
114, 134, 191, 216, 255, 181, 189

8. The rainfall, in inches per year, for seven different states:

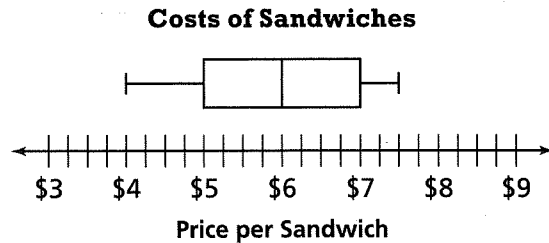
83, 57, 48, 97, 20, 36, 31

In 9 and 10, use the box plot to answer the question.

9. How much does the less expensive 50% of trail mix cost?

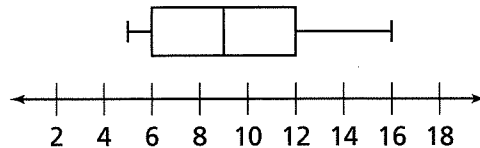


10. How much does the most expensive sandwich cost?



11. **Higher Order Thinking** Terence made a box plot showing the number of points scored at football games. Without seeing the values, what part of the scores fall in the range represented by the box? Explain.

12. **Critique Reasoning** Casey recorded the weights, in pounds, of 10 cats at the vet's office: 5, 8, 6, 13, 16, 12, 5, 8, 10, 15. Casey then drew a box plot using the weights. What error did Casey make?



Assessment Practice

13. Use the given data to complete the box plot.

Shantay tossed a pair of number cubes numbered 1–6 a total of 10 times. The sums of the numbers on her cubes for each of her tosses are shown in the table.

Sum of Pair of Tossed Number Cubes

11 3 9 5 10 7 7 6 7 6

Complete the box plot to show the distribution of the sums.

